

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P221885

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29494)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4773.9 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.83
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: General Diffuse

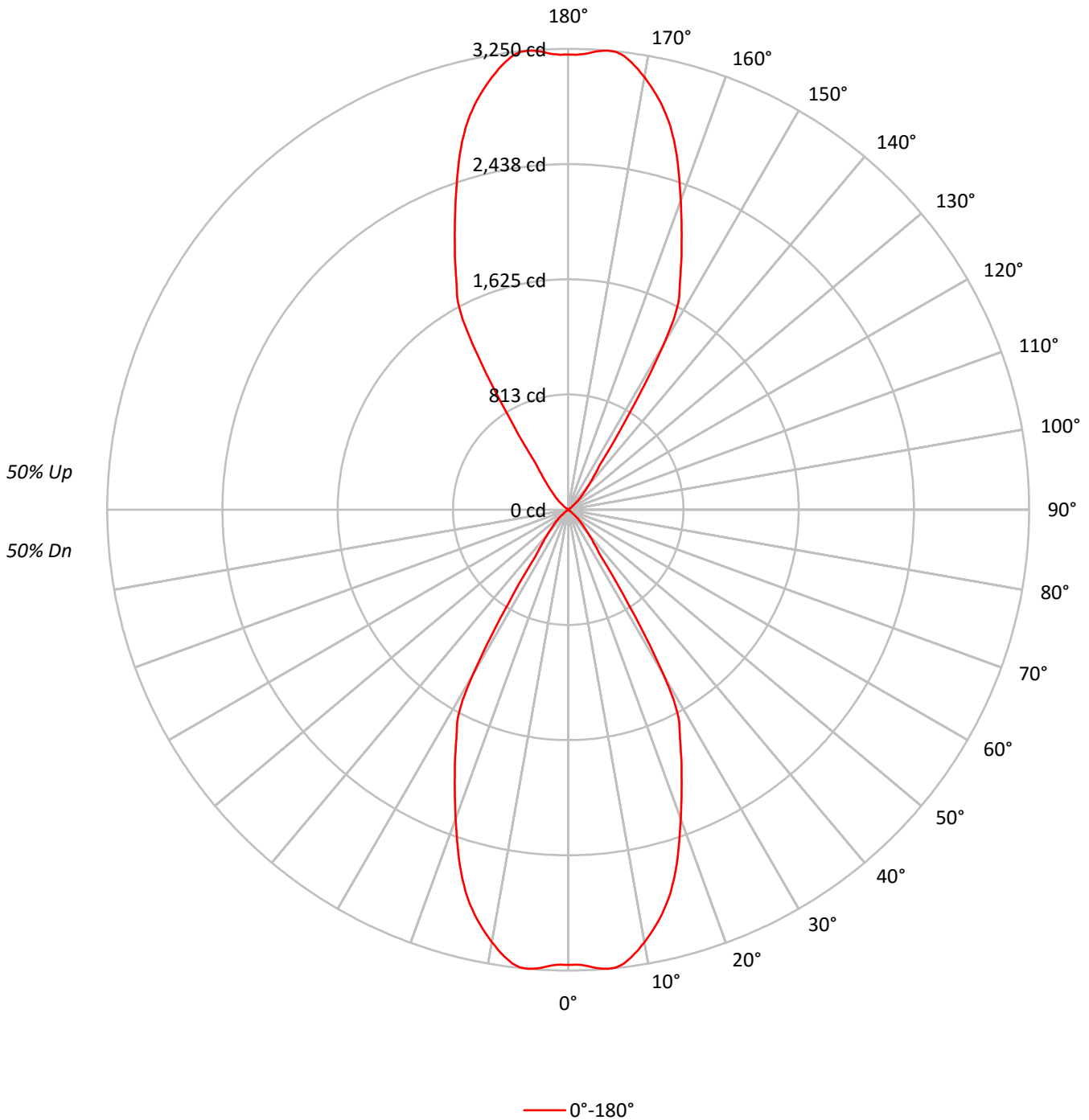
Input Watts (W): 57.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P221885

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P221885

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	100	97	94	91	93	90	87	85	77	75	74	65	64	63	53	53	52	47
2	94	88	83	79	87	82	78	75	71	68	66	60	59	57	51	50	49	44
3	88	80	75	70	81	75	70	67	65	62	59	56	54	52	48	47	45	42
4	82	74	68	63	76	69	64	60	61	57	54	53	50	48	46	44	42	39
5	77	68	62	57	72	64	58	54	57	52	49	50	47	44	43	41	40	37
6	72	63	56	52	68	59	54	50	53	49	45	47	44	41	41	39	37	35
7	68	58	52	47	64	55	50	46	49	45	42	44	41	38	39	37	35	33
8	64	54	48	44	60	52	46	42	46	42	39	41	38	36	37	35	33	31
9	61	51	45	40	57	48	43	39	44	39	36	39	36	34	35	33	31	29
10	58	48	42	38	54	45	40	36	41	37	34	37	34	32	33	31	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	395939
5°	402405
10°	387894
15°	356529
20°	304396
25°	255726
30°	191422
35°	60080
40°	35585
45°	21630
50°	9019
55°	1505
60°	987
65°	584
70°	361
75°	477
80°	0
85°	0



TEST NUMBER: P221885

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	6.4
10°-20°	770.1	16.1
20°-30°	857.7	18.0
30°-40°	342.2	7.2
40°-50°	97.8	2.0
50°-60°	10.8	0.2
60°-70°	2.1	0.0
70°-80°	0.9	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.9	0.0
110°-120°	2.1	0.0
120°-130°	10.8	0.2
130°-140°	97.8	2.0
140°-150°	342.2	7.2
150°-160°	857.7	18.0
160°-170°	770.1	16.1
170°-180°	305.3	6.4
0°-30°	1933.1	40.5
0°-40°	2275.3	47.7
0°-60°	2383.9	49.9
0°-90°	2387.0	50.0
90°-120°	3.0	0.1
90°-150°	453.9	9.5
90°-180°	2387.0	50.0
0°-180°	4773.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3210	
5°	3250	305
15°	2792	770
25°	1879	858
35°	399	342
45°	124	98
55°	7	11
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	7	11
135°	124	98
145°	399	342
155°	1879	858
165°	2792	770
175°	3250	305
180°	3210	



TEST NUMBER: P221885

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV

CANDELA DISTRIBUTION (FULL):

0°	
0°	3210
1°	3209
2°	3215
3°	3230
4°	3244
5°	3250
6°	3246
7°	3225
8°	3189
9°	3145
10°	3097
11°	3045
12°	2991
13°	2931
14°	2865
15°	2792
16°	2707
17°	2616
18°	2517
19°	2416
20°	2319
21°	2225
22°	2135
23°	2047
24°	1964
25°	1879
26°	1799
27°	1730
28°	1658
29°	1531
30°	1344
32.5°	786
35°	399
37.5°	295
40°	221
42.5°	164
45°	124
47.5°	92
50°	47
52.5°	12
55°	7
57.5°	5
60°	4
62.5°	3
65°	2



TEST NUMBER: P221885

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	1
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	1
105°	1
107.5°	1
110°	1
112.5°	1
115°	2
117.5°	3
120°	4
122.5°	5
125°	7
127.5°	12
130°	47
132.5°	92
135°	124
137.5°	164
140°	221
142.5°	295
145°	399
147.5°	786
150°	1344
151°	1531
152°	1658
153°	1730
154°	1799
155°	1879
156°	1964
157°	2047
158°	2135
159°	2225
160°	2319
161°	2416



TEST NUMBER: P221885

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-W-BK-L3-UNV

CANDELA DISTRIBUTION (continued):

	0°
162°	2517
163°	2616
164°	2707
165°	2792
166°	2865
167°	2931
168°	2991
169°	3045
170°	3097
171°	3145
172°	3189
173°	3225
174°	3246
175°	3250
176°	3244
177°	3230
178°	3215
179°	3209
180°	3210

(END OF REPORT)